

Space News Roundup

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No. 24

Pilot program to enhance office support

Teamwork was the hallmark of a recent secretarial pilot program designed to test a new approach to providing better coverage and customer service, while giving secretaries flexibility in performing tasks and arranging schedules.

Response to the innovative approach by participating secretaries in the Aeroscience and Flight Mechanics Division has been overwhelmingly positive, in spite of some initial skepticism.

"Team members assumed greater responsibilities, more challenges and were involved in areas where they might not have been involved before," said Earlene Miner, team lead.

Aeroscience and Flight Mechanics Division Chief Aldo Bordano said the arrangement allowed the Office Support Team of six secretaries to do the work of nine. Each secretary chose an area of expertise (travel, correspondence, timecards, etc.) on which they could give guidance to other members of the team.

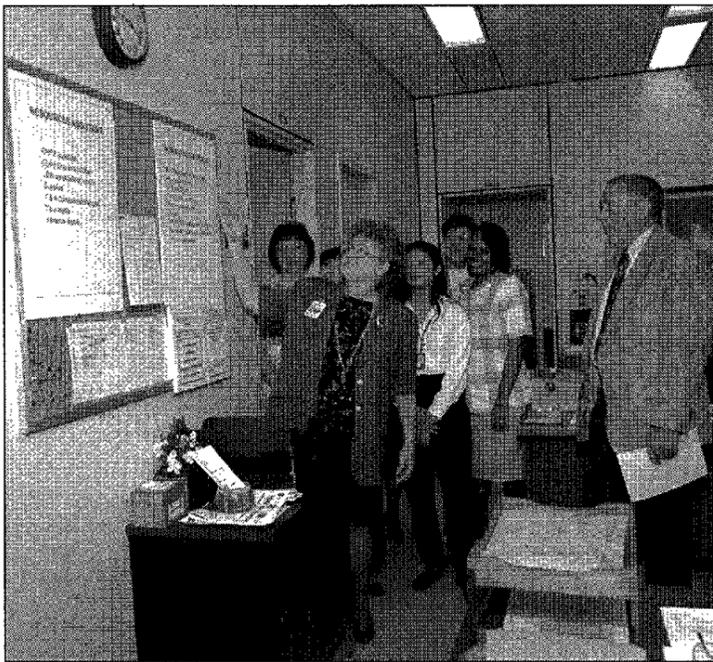
In addition, the team members helped each other provide common support to customers for tasks such as photocopying and preparing correspondence. The team made use of a central in box, from which any one could pull a job and get it done.

"Any one of the team members can walk by, see there's a job to do and go do it," Miner explained.

Not only were the secretaries able to provide better office coverage and customer service, they also gained greater flexibility in performing tasks and arranging schedules. One improvement the concept brought was the ability to spread the workload and cover absences due to training, annual leave or illness, Miner said.

"In the past, if a secretary was in training or on leave, personnel would either delay having clerical work performed or do it themselves," Miner said. "Now, personnel can at all times find a team member to perform these duties."

Please see **SECRETARIES**, Page 4



JSC Photo by Robert Markowitz

Above: JSC Director George Abbey talks with the Aeroscience and Flight Mechanics Division Office Support Team about a new pilot program that gives greater flexibility and enhanced office products. From left are Pat Ford, Isabel Elizondo, Earlene Miner, Leticia Arriaga, Jane Smith and Rose Sowell. The team also includes Jeanette Sanelli. Below: From left, Human Resource Director Harvey Hartman and assistant Bob Hall, sign a partnership agreement with the American Federation of Government Employees, Local 2284 Executive Vice President Bridget Broussard-Guidry and President Mary McLain.



Double check clears *Columbia* for STS-78 launch

By James Hartsfield

Late Tuesday, technicians at KSC cleared the way for a Thursday launch of *Columbia* on STS-78 after X-rays of an external tank door primary drive unit showed it in good condition.

Columbia was scheduled for a 9:49 a.m. CDT liftoff Thursday to begin almost 17 full days in orbit, with a Florida landing planned on

July 7. Earlier this week, shuttle managers decided to double-check screws in the drive unit on *Columbia* after screws in similar units on *Atlantis* were found to be loose. The drive units are electric motors that close the external tank doors on orbiter's underside after the empty fuel tank is jettisoned. To check the screws on *Columbia*, workers had to reopen the shuttle's engine compartment and X-ray the units.

Also Tuesday, technicians noted a software error on one master events controller aboard *Columbia*, although the problem was in software not used for STS-78. Engineers still planned to check the problem to ensure the errors would have no effect on the upcoming launch, but the analysis was not expected to interrupt the launch countdown. The master events controllers send commands to separate

the solid rockets and external fuel tank during the shuttle's climb to orbit.

The STS-78 crew — Commander Tom Henricks, Pilot Kevin Kregel, Payload Commander Susan Helms, Mission Specialists Rick Linnehan and Charles Brady, French Astronaut Jean-Jaques Favier and Canadian Astronaut Bob Thirsk — arrived at KSC Monday afternoon in



preparation for launch. The crew will be keeping hours similar to daytime hours in Houston during the mission.

Elsewhere, *Discovery* will depart Rockwell's Palmdale, Calif., shuttle factory for a ferry flight back to Florida on Tuesday. Weather permitting, the flight will spend Tuesday night in

Corpus Christi, arriving there at about 11:30 a.m. CDT. Shuttle and space walking exhibits as well as visits by members of the STS-82 crew, the second Hubble Space Telescope servicing mission and *Discovery's* next flight, will accompany the stopover.

If the weather remains favorable, *Discovery* will depart Corpus Christi Wednesday morning for Ellington Field, where it will spend about three hours while the Shuttle Carrier Aircraft is refueled before traveling on to Florida.

Space station truss under goes tests

By Kyle Herring

A major segment of the International Space Station, which houses the communications and tracking, attitude stabilization, thermal control, and electrical power distribution systems, successfully completed tests last month in the simulated weightlessness of a special water tank.

Assisted by test and safety divers, astronaut teams simulated procedures during a three week test in the Neutral Buoyancy Simulator at NASA's Marshall Space Flight Center.

The element tested in the water tank was a high fidelity mock-up of the Z-1 truss segment. The centrally located Z-1 truss structure will deploy antennas, provide cooling to laboratory equipment, and bring electrical power to the space station once in orbit.

The tests also evaluated the use of mobility aids, handling of equipment, use of foot restraints and hand holds for space walks during space station truss assembly.

"The test and development of procedures for truss assembly and maintenance mark an important milestone for the Space Station program," said Randy Brinkley, International Space Station Program Manager JSC. "The highly successful work accomplished in the Neutral Buoyancy Simulator is a major milestone in the schedule for the launch of these critical elements of the space station."

"Neutral buoyancy provides an

excellent environment for testing hardware designed to operate in space while affording the opportunity to evaluate procedures that will be used in space to assemble structures such as the space station," according to Bill Barnett, test director at the Neutral Buoyancy Simulator.

"By attaching a system of floats and weights, suited subjects or equipment neither sink nor float, making the subjects and equipment neutrally buoyant," said Barnett. "The neutral buoyancy facility provides a realistic simulation of working in space, permitting astronauts to test equipment designs, use of tools and to work through portions of actual mission timelines for assembly of objects in space."

"We tested the design for assembly and maintenance of the space station's electrical power system and the interfaces to the power system," said Ron Lovely, Rocketdyne Manager of Space Operations and Flight Experiments. "Also, we evaluated tasks and equipment which provide power and other necessary functions to make the living and working places on the Station habitable."

"The simulations at Marshall," Lovely said, "are how we find out if we are meeting all the requirements for extravehicular activities or space walks. This series of tests has gone extremely well. We are very excited and pleased about the progress made toward the verification of the station for assembly and maintenance in space."

Lucid writes home about pink socks, Jell-O

(Editor's note: *Mir 21* Cosmonaut Researcher Shannon Lucid recently sent a letter home from the Russian *Mir* Space Station as science work continues to occupy the crew's time. The following is the text of her letter.)

Dear Everybody,

Here it is, another Sunday on *Mir*. And how, you might ask, do I know that it's Sunday? Easy. I have on my pink socks and Yuri, Yuri, and I have just finished sharing a bag of Jell-O.

When light follows darkness every 45 minutes, it is important that I have simple ways of marking the passage of time. The pink socks were found on STS-76 and Kevin, the commander, said that they were obviously put on as a surprise for me, so I took them with me over to *Mir* and decided to wear them on Sundays.

And the Jell-O? It is the greatest improvement in space flight since my first flight over ten years ago. When I found out that there was a refrigerator on board *Mir*, I asked the food folks at JSC if they could put Jell-O in a drink bag. Once aboard *Mir*, we could just add hot water, put the bag in the refrigerator and, later, have a great treat.

Well, the food folks did just that and sent a variety of flavors with me to try out. We tried the Jell-O first as a special treat for Easter. It was so great that we decided the *Mir 21*- NASA 2 crew tradition would be to share a

bag of Jell-O every Sunday night. Every once in a while, Yuri will come up to me and say, "Isn't today Sunday?" and I will say "No, it's not. No Jell-O tonight."

There have been a lot of changes here on *Mir* since I arrived. And no, the changes were not because I am here.

The first big change was the arrival of *Priroda*, the final segment that is to be added to *Mir*. This segment is called *Priroda* because that's the Russian word for nature and there are sensors on the outside of the segment to study the earth. The US science equipment is located inside this segment.

As a graduate student years ago, I fantasized about having my own laboratory. I must admit, though, that in none of my fantasies was I gazing out the window of a space station watching "my laboratory" approach like a gigantic silver bullet moving in slow motion toward the station's heart. Reality is indeed stranger than fiction.

There had been a power problem on *Priroda* after its launch, so there was some concern about leaking from the batteries into the atmosphere. When it arrived, we had to wait and check out the air quality before opening the hatch. Yuri checked the air and pronounced it good. After listening to the hissing air as the atmospheric pressure was equalized between *Priroda* and *Mir*, the hatch was opened. And yes, it was a dramatic moment.

Please see **LUCID**, Page 4



JSC

Ticket Window

The following discount tickets are available for purchase in the Bldg. 11 Exchange Store from 10 a.m.-2 p.m. Monday-Thursday and 9 a.m.-3 p.m. Friday. For more information, call x35350 or x30990.

Lovin Feelings Concert: 7 p.m. Sept. 28 at the Summit. Tickets cost \$37.

Arena Football: Texas Terror vs Florida 7:30 p.m. July 13 at the Summit. Tickets cost \$11.50.

EAA Caribbean Getaway from New Orleans: Carnival Cruise Sept. 13-20, from \$539, \$200 deposit required, final payment due July 8.

EAA Mexico Copper Canyon Train Trip: Nov. 6-12, \$995 per person, \$200 deposit required, final payment due Sept. 6.

Splashtown: One day pass cost \$14.25.

Schlitterbahn: One day pass cost \$19.75 for adults, \$16.95 for children.

Astroworld: One day pass cost \$22.75, two day pass cost \$34.25.

Fiesta Texas: One day pass cost \$22.75, two day pass cost \$34.25.

Six Flags at Arlington: One day pass cost \$22.75, two day pass cost \$34.25.

Sea World: Adult tickets cost \$24.50, children (3-11) cost \$17.25.

Space Center Houston: Discount tickets, adult, \$8.75; children (4-11), \$7.10.

Movie discounts: General Cinema, \$4.75; AMC Theater, \$4.50; Sony Loew's Theater, \$4.75.

Stamps: Book of 20, \$6.40.

JSC history: *Suddenly, Tomorrow Came: A History of the Johnson Space Center.* Cost is \$11.

Metro tickets: Passes, books and single tickets available.

JSC

Gilruth Center News

EAA badges: Dependents and spouses may apply for photo identification badges from 7 a.m.-9 p.m. Monday-Friday; and 8 a.m.-4 p.m. Saturdays. Dependents must be between 16 and 23 years old.

Golf instruction: Group Golf Clinics throughout spring and summer at Clear Lake Golf Club. Sign up at Gilruth.

Fitness Challenge: 1996 Fitness Challenge runs to Aug. 31. Employees are eligible to win \$100 gift certificates. For more information call Larry Wier at x30301.

Defensive driving: One day course is offered once a month. Cost is \$25. Interested employees should call the Gilruth.

Stamp club: Meets at 7 p.m. every 2nd and 4th Monday in Rm. 216.

Women's self defense: Martial Arts training for women only from 5-6 p.m. Tuesdays and Wednesdays. Cost is \$25 a month.

Weight safety: Required course for employees wishing to use the weight room is offered from 8-9:30 p.m. June 27. Pre-registration is required. Cost is \$5.

Exercise: Low-impact class meets from 5:15-6:15 p.m. Mondays and Wednesdays.

Aikido: Martial arts class meets from 6:15-7:15 p.m. Tuesday and Wednesday. Cost is \$25 per month. New classes begin first of each month.

Aerobics: Class meets from 5:15-6:15 p.m. Monday, Tuesday and Thursday. Ballroom dancing: Cost is \$60 per couple. For additional information call the Gilruth Center at x33345.

Country and Western dancing: Beginner class meets 7-8:30 p.m. Monday. Advance class meets 8:30-10 p.m. Monday. Cost is \$20 per couple.

Fitness program: Health Related Fitness Program includes a medical examination screening and a 12-week individually prescribed exercise program. For more information, call Larry Wier at x30301.

JSC

Swap Shop

Swap Shop ads are accepted from current and retired NASA civil service employees and on-site contractor employees. Each ad must be submitted on a separate full-sized, revised JSC Form 1452. The blank form is available electronically on the Internet at <http://www.jsc.nasa.gov/pao/roundup/weekly/>. Deadline is 5 p.m. every Friday, two weeks before the desired date of publication. Ads must be submitted in paper form, and may be run only once. Send ads to Roundup Swap Shop, Code AP2, or deliver them to the deposit box outside Rm. 181 in Bldg. 2. No phone or fax ads accepted.

Property

Lease: Clear Lake, Oakbrook, 4-2.5, formals, FPL, fenced w/2 car attached garage, approx 2100 sq ft, avail now, \$1250/mo. Jack Cohen, 488-3171.

Sale: Lot at Toledo Bend, Holiday Forest, Hemphill, TX, \$7.5k; lot at Walden on Lake Conroe, \$18k. 488-2652 or 996-8926.

Rent: League City, Pecan Forest, 3-2-2, FPL, very clean, no pets, \$850/mo. 554-6200.

Sale: Heritage Park, 3-2-2, approx 1500 sq ft, vinyl siding, security system, \$75.9k. 992-1657.

Sale: Taylor Lake Estates, wooded 90' x 135' lot, \$39.5k obo, can finance, Don, x38039 or 333-1751.

Sale: Clear Lake Condo, 1-1, W/D, FPL, god cond, \$123k. Ruben, x47119 or 486-0817.

Rent: Univ Trace Condo, 2-2, covered parking, no pets, non-smoker only. 480-1340.

Sale: LC, Brittany Bay, 4-2.503D, tile, security system, workshop, \$121k. Carlos, x38879 or 332-1991.

Sale: Dickinson Bayou waterfront lot, .5 acres, recent bulkhead, wooded, \$65k obo. x31370 or 334-7412.

Sale: CLC Meadowgreen, 3-2.5-2, FPL, Blue Haven pool, cut-de-sac, new roof and A/C, whirlpool, \$112.9k. 244-4480 or 488-3554.

Sale/lease: Space Ctr Blvd condo, 1-1 w/study and carport, gates, alarm, patio, new paint. 977-5763.

Rent: Pipers Meadow, 2-2-2, \$725. 331-8749.

Rent: Beach house, Crystal Beach, TX, Galveston Co, fully furnished, cable TV, ocean view, wkly/wknd. 486-1888.

Sale: Livingston-Woodville area cabin, 2-1, on semi private lake, \$14.5k nego. 488-4699.

Rent: Beach house, Jamaica Beach, West Galveston, 2nd row off beach, all amenities, sleeps 5-7, wknd/wkly rates. 488-6796 or 409-737-5017.

Cars & Trucks

'73 Ford P/U truck, good cond, F-100, 360 cu in, std 4 spd, \$1150 obo. Jim, x30767 or 482-4826.

'87 GMC van, customized by Anaheim, ex cond, 86k mi, \$7.5k obo. 488-4741.

'88 Toyota Celica, 5 spd, 3 dr, 83k mi, ex cond, sunroof, cruise, A/C, P/L, P/W, red, \$4.8k obo. Laura, x32666 or 480-2830.

'90 Ford Aerostar XLT ext length, alarm, rear A/C, high miles, orig owner, no kids, \$5950. 332-2229.

'83 Mercury Zephyr, 6 cyl, new tires, brakes and carburetor, runs good, \$800. x35092 or 944-2391.

'90 Nissan 240SX fastback, midnight blue, stick, new tires, A/C, AM/FM, moonroof, 59.5k mi, \$8.5k obo. x47014 or 486-7417.

'84 Olds Ciera Cruiser Wagon, good cond, P/W, P/S, P/B, A/C, auto, cruise, tilt, trir hitch, luggage rack, r def, all records, \$1700. x36309 or 474-9747.

'91 Pontiac Sunbird LE convertible, red w/white

top, gray interior, garaged, P/W, P/L, A/C, ex cond, \$7750. Jessica, x36792 or 332-6588.

'79 Chevrolet El Camino, good to fair cond, \$2k obo. Jimmy, 337-5583.

'87 Toyota LE van, 1 owner, ex cond, dual air, \$4.7k. 488-6180.

'91 Chevy Beretta, blue, low mi, 3.1 V6, reg maint, air bag, ex cond, \$6.8k. Dan, x34640 or 482-7550.

'84 Ford F150, 302 engine, 4x4, auto locking hubs, new paint/tires, \$5.4k obo. George or Kathy, 409-925-1229.

'86 Honda Civic, 4 dr sedan, white w/black trim, blue interior, man trans, A/C, very clean, 1 owner, \$2350 obo. x35597 or 554-5156.

'78 Jamboree motorhome, 21', V8, P/S, P/B, auto, A/C, sleeps 6, will trade for pickup truck of same value, \$5.9k obo. 337-9218.

'89 Ford Probe GT Turbo, 5 spd, loaded, alarm, ex cond, \$5k. Tiffany, x31888 or 643-2210.

'94 Jeep Cherokee Country, auto, 4 dr, A/C, AM/FM/cass, alarm, black, 64k mi, ex cond. Joe, 767-5584 or 480-8916.

'94 Galant LS, ABS, sunroof, CD, alarm, \$13,975. 307-8233 or 896-9139.

'88 Pontiac Gran Prix, V6, good cond, \$3.7k. 930-1463.

'87 Olds Toronado, small body style, white w/blue leather int, all pwr, ex cond. 901-9246 or 488-2454.

'87 Buick Park Avenue, 3.8 liter V6, auto, cruise, all pwr, valve and timing chain at 100k mi, new A/C, tires, shocks, struts, and fuel pump, 129k mi, \$3995 obo. Ginger, x38493 or 332-7908.

'90 Chevy Caprice Classic, 2 tone blue, 4 dr, 305 auto, cruise, tilt, P/L, pwr driver's seat, AM/FM/cass, A/C, 72k mi, \$5795, nego. Pat, x30021 or 479-7947.

'85 Honda Accord, ex cond, \$1895 obo. 901-9246 or 488-2454.

'94 Mazda 626 LX, loaded, low mi, easy terms or \$15k. 484-2597.

'83 Dodge van, custom interior, mag wheels, stock wheels, runs great, no A/C, \$1700. Ken, x31496 or 286-7583.

'85 Chevy Astro van, 6 cyl, 4 capt chairs and bench seat, A/C, auto, cruise, tile, P/W, P/L, new brakes, tires, shocks and muffler, \$3k obo. Ray, x41010 or 333-2977.

'93 Ford Ranger Supercab, A/C, AM/FM/cass, 4.0 V6, 5 spd, towing pkg, \$10k. Dave, x36027.

'90 Pontiac Sunbird convertible, P/L, P/W, A/C, AM/FM/cass stereo, ex cond, \$5.9k. Dave, x36027.

'91 Chevy Suburban Silverado, low mi, clean, \$21.5k. Carlos, x38879 or 332-1991.

'92 Chevy Lumina, Euro 3.4, black w/gray interior, sport inst, all options, Delco Bose AM/FM/cass, alarm, garaged, ex cond, \$7.8k. Ron, x33196.

'84 Mazda RX-7 GSL-SE, black/red, 5 spd, AM/FM/cass, sunroof, good cond, \$2950. 318-0412.

'92 Chevy Silverado 1500 ext cab, stepside, short bed, \$9k obo. 471-9399.

Boats & Planes

Boat trailer, accommodates 18' boat, 16' tires, \$400. 488-2652 or 996-8926.

'92 Kawasaki 750 Super Sport Waverunner, trlr, life vests, ex cond, \$3.5k. 488-2184.

Cycles

'94 Kawasaki Ninja 250, ex cond, 1300 mi, black and purple, matching helmet, \$3k. 280-8812.

JSC

Dates & Data

Today

Cafeteria menu: Special: tuna noodle casserole. Total Health: baked potato. Entrees: steamed salmon steak, baked chicken, fried cod fish, ham steak. Soup: seafood gumbo. Vegetables: French cut green beans, cauliflower with cheese, green peas, black-eyed peas.

Monday

Cafeteria menu: Special: breaded outlet. Total Health: crispy baked chicken. Entrees: stir fry pork and rice, baked chicken, smoked sausage with German potato salad, French dip sandwich. Soup: cream of broccoli. Vegetables: okra and tomatoes, peas, navy beans, baby carrots.

Tuesday

Cafeteria menu: Special: fried chicken. Total Health: vegetable lasagna. Entrees: Salisbury steak, steamed pollock, vegetable lasagna, French dip sandwich. Soup: split pea and ham. Vegetables: mixed vegetables, French cut green beans, pinto beans, vegetable sticks.

Wednesday

Toastmasters meet: The Space-Land Toastmasters will meet at 7 a.m. June 26 at the House of Prayer Lutheran Church. For details call Jeannette Kirinich x45752.

Astronomy seminar: The JSC Astronomy Seminar will meet at noon June 26 in Bldg. 31, Rm. 129. Discussion will focus on the "Search for the Tunguska Meteorite." For details, call Al Jackson at x35037.

Cafeteria menu: Special: stuffed bell pepper. Total Health: baked potato. Entrees: stir fry chicken & rice, wieners & beans, fried fish, western special, beef, chicken sausage, Reuben sandwich. Soup: seafood gumbo. Vegetables: but-

tered rice, Italian green beans, corn O'Brien, peas and carrots.

Thursday

PMA workshops: The Performance Management Association, Houston chapter, will host a luncheon workshop on the Implementation of an Earned Value Management System at 11:15 a.m. June 27 at the Ramada Inn on NASA Road 1. The discussion will focus on "Storyboard Development and Work Definition." Cost is \$13 and includes lunch. For details call Susan Widmer at x34299.

Radio club meets: The JSC Amateur Radio Club will meet at noon June 27 in Bldg. 16 Rm. 253. For details call Larry Dietrich at x39198.

Cafeteria menu: Special: barbecue smoked link. Total Health: roasted turkey breast. Entrees: turkey and dressing, beef stroganoff, steamed pollock, French dip sandwich. Soup: tomato Florentine. Vegetables: Spanish rice, lima beans, buttered squash, oriental vegetables.

Friday

Cafeteria menu: Special: meat sauce and spaghetti. Total Health: baked potato. Entrees: rainbow trout, liver and onions, beef cannelloni, ham steak, fried cod fish, Reuben sandwich. Soup: seafood gumbo. Vegetables: steamed broccoli, breaded okra, cut corn, black-eyed peas.

July 2

ABWA meets: The American Business Women's Association, Clear Lake Area Chapter, will meet at 5:30 p.m. July 2 at the Bay Oaks Country Club. For more information call Nancy Hutchins at x34006.

July 4

Fourth of July: Most JSC offices

will be closed for the Fourth of July holiday.

July 10

MAES meets: The Society of Mexican American Engineers and Scientists will meet at 11:30 a.m. July 10 in the Bldg. 3 Cafeteria executive dining room. For details call Michael Ruiz at x38169.

July 11

Airplane club meets: The Radio Control Airplane Club will meet at 7:30 p.m. July 11 at the Clear Lake Park Community Bldg. For details call Bill Langdoc at x35970.

July 12

Astronomers meet: The JSC Astronomical Society will meet at 7:30 p.m. July 12 at the Lunar & Planetary Institute 3600 Bay Area Blvd. For details call Chuck Shaw at x35416.

July 25

PMA workshop: The Performance Management Association, Houston chapter, will host a luncheon workshop on the Implementation of an Earned Value Management System at 11:15 a.m. July 25 at the Ramada Inn on NASA Road 1. The discussion will focus on "Cost, Schedule and Resources." Cost is \$13 and includes lunch. For details call Susan Widmer at x34299.

Aug. 29

PMA workshop: The Performance Management Association, Houston chapter, will host a luncheon workshop on the Implementation of an Earned Value Management System at 11:15 a.m. Aug. 29 at the Ramada Inn on NASA Road 1. The discussion will focus on "Work Authorization and Budget Drivers." Cost is \$13 and includes lunch. For details call Susan Widmer at x34299.

tress, \$200. Donna, x38679 or 409-925-1229.

Pair antique elm, spindle-back side chairs, rush seats, c1850, \$75 ea, \$125 pair. x31057.

Gas dryer, almond, like new, \$175. 244-4480 or 488-3554.

Curtis Mathis 25" color console TV, \$75 or trade for 19" TV. Nelson or Linda, 332-0746.

Refrigerator, \$93.47, 480-5650.

Country blue Catnapper recliner, less than 2 yrs old, was \$300, now \$150. Jackie, x36474.

Hide-a-bed sofa, flexsteel, matching large wood arm chair, paisley print in rust, gray, white, light gold, good cond, \$350 both. Arlene, 488-6156.

Four antique oak pressed back chairs, one needs repair, \$150; freestanding stomach/back weight machine, \$125. 992-2587.

King sz Spring Air Marquis mattress, \$150; kg sz six drawer waterbed frame, mirrored bookshelf headboard, mattress liner and padded side rails, \$150; kg sz air mattress, \$20. Paul, x45353.

Wanted

Want Disney video classics, Little Mermaid, The Jungle Book, Bambi, 101 Dalmations, Lady and the Tramp, Pinocchio and Sleeping Beauty. x32009.

Want to buy an Atari 400, 800 or 1200 that will play games. 996-8522.

Want canoe and single speed beach cruiser type bicycles. Gene, x38020 or 334-1505.

Want Waverunner w/mechanical problems. Ken x31496 or 286-7583.

Want non-smoking housemate to share 3 BR house in Clear Lake Shores, \$350/mo plus util. Conchita, x37135 or 538-2698.

Want non-smoking roommate to share 4 BR CLC house, \$100 dep, \$275/mo plus separate phone. 488-6493.

Want roommate to share new large 4 BR home in Seabrook, all amenities, \$375. 474-4742.

Want non-smoking female to share 3-2-2 with same, \$350 dep, \$300/mo incl all util except phone. 322-8417.

Want considerate, non-smoking housemate to share 3-2-2 w/bath and garage, Bay Glen/CLC, \$335/mo + \$200 dep, 1/2 util. Larry, x33168 or 488-7460.

Want Nikon, Canon, Pentax cameras, lenses, accessories to teach high school students, will pay reasonable prices. Steve, x37152 or 992-7049.

Want to buy or borrow Havahearth animal traps, medium sz for feral cats. Steve, x37152 or 992-7049.

Want space memorabilia for private collection, flown items, autographs on photos, covers, letters relating to Mercury, Gemini, Apollo, Skylab, Shuttle. Richard, 481-8080.

Want Space Shuttle payload and experiment decals, pins and cloth patches from STS-75, STS-76 and STS-77. Andrew, x34312.

Want riders to join VPSI Vanpool from Meyerland Park and Ride at 7:05 a.m. to JSC, for on-site workers, 8 a.m.-4:30 p.m. shift. Don Pipkins, x35346.

Want riders to join VPSI Vanpool from South Braeswood Park and Ride at 6:50 a.m. to JSC and offsite locations, 7:30-4:30 shift. Susan Gaynor, 282-5447 or Al Ruder, x34997.

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Hundreds of Space Shuttle and many other space related decals, \$.50 to \$1 ea. Andrew, x34312.

Girl's 20" bike, \$30; skateboard, \$50. Mike, x34710.

Prince tennis racquet w/cover, like new; Seatec diving BC; Super NES w/wireless controllers; Donkey Kong Country and Donkey Kong Country 2, best offer. Ron, x48200.

Computer desk w/attached hutch, \$25; 12 spd, girl's 26" bike, ex cond, \$30; golf clubs, 4 woods, 7 irons, putter, bag, \$30. 488-1537.

Safety is No Accident

June 1996

*Education is a vital link
in the safety chain*

A publication of NASA's Johnson Space Center for Employees' Safety and Health



JSC Photo by Mark Sowa

JSC Director George Abbey and Seemore Safety get together to promote Safety and Total Health Day set for Oct. 23. Look for Seemore around the center at special events and other safety-related functions. Look for Seemore to team up with Total Health Employee Wellness mascot, Nurse Vera, as they make the rounds giving out safety and health suggestions and "goodies" on Safety and Total Health Day. For a personal appearance by Seemore at a safety meeting or on-site event, call x45078.

New class helps identify asbestos hazards

Classes are now being offered by JSC's Safety Learning Center for employees and supervisors who need to identify and control asbestos hazards as part of their jobs.

The Class III Asbestos Operations and Maintenance Competent Person classes are required by the Occupational Safety and Health Administration for employees performing Class III asbestos work. JSC contractors with personnel conducting such work must have at least one person trained as a "competent person" for the company. It is also appropriate to have several supervisors trained in this area as well.

The course teaches workers how to identify

asbestos hazards in the workplace and select appropriate control strategy for asbestos exposure, their responsibility for periodic inspections of the work site to ensure appropriate control measures are being followed and handling authority to correct and implement protective measures when discovered.

The course will cover the requirements for Class III competent person as well as the JSC Asbestos Control Program. Cost is \$95 per student.

The Safety Learning Center is currently taking enrollments on a first-come, first-served basis for this 16-hour course, scheduled for June 24-25 and July 1-2. To register, call x36369.

JSC expands safety education, awareness

By Rindy Carmichael

The center is undergoing a transformation in its attitude about safety with more emphasis being placed on awareness and training.

"Safety has always been a primary concern of JSC in relation to mission operations," said Tracy Ferguson of the Health, Safety and Environmental Compliance Office. "Now we see JSC focusing on employees as well — what their job is, what hazards they can encounter and how to protect themselves."

One source of safety training on site is the JSC Safety Learning Center.

The SLC offers training to civil service and contractor personnel in accordance with JSC, NASA and OSHA policies and guidelines. The courses help employees obtain required training and certifications needed to maintain or, in some cases, exceed compliance with Occupational Safety and Health standards.

"The SLC provides a full range of training courses and programs that offer effective, proven methods of safety performance enhancement," Ferguson said. "The programs are designed to meet JSC's safety needs by addressing not only safety situations and regulations, but also safety concerns."

The SLC offers Collateral Duty courses for personnel designated by their organizations as Fire Wardens, Facility Managers and Safety Representatives. Periodically, detailed Hazwopper courses are scheduled for civil service and contractor personnel designated to provide incident commander or first responders

operations procedures. Other courses include confined space entry and lockout/tagout and safety awareness courses such as Managers' Safety, Senior Managers' Safety and Fundamentals of Occupational Safety. American Red Cross courses, including Community First Aid and Safety, Protect Your Back and Community CPR, are offered monthly. Safety films to allow unescorted access to various buildings and operations at KSC are available for viewing.

Additionally, the NASA Safety Training Center provides specialized safety, health and risk management courses at JSC as well as other NASA centers. "We anticipate increased collaboration with the NSTC, Industrial Hygiene and

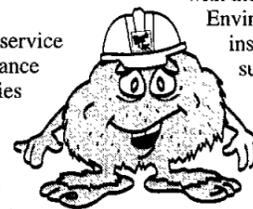
Environmental support and our own adjunct

instructors in developing programs that support a common training mission," said

Andrew Hernandez, project lead for the NSTC/SLC. "This mission is simply to provide JSC civil service and contractor employees with the training needed to maintain a safe and

healthy working environment that is in compliance with all applicable standards, and which allows for JSC's continuing vital role in the space program." Several NSTC courses are scheduled throughout the year at the learning center.

Individualized training also is available through the SLC video library with programs ranging from compliance with OSHA standards to home safety. The video library includes audio-cassettes on communication, management roles and motivational techniques for training and awareness. The Safety Learning Center is open weekdays from 8 a.m.-4:30 p.m. and is located on Avenue B between Fifth and Sixth Streets. For more information on specific courses or course registration, call x36369.



Confined space hazards can be reduced with proper training

By Mary Peterson

In 1987 Americans everywhere were preoccupied with the fate of a toddler named Jessica, trapped in an abandoned well in west Texas with frighteningly slim odds of being rescued.

The country breathed a collective sigh of relief when at last, under extremely difficult conditions, rescuers were able to retrieve her relatively unharmed. An isolated incident? Not as much as one might think.

Hazards of confined spaces exist in

numerous places, not the least of which occur at the workplace.

In the recent past, an incident occurred at JSC when several telecommunications employees were spotted by Sean Keptra of the Health, Safety and Environmental Compliance Office as they were about to enter an electrical manhole on site. "The space, approximately 10 to 12 feet deep normally a dry manhole, had standing water on this occasion," according to Keptra.

"This posed the added threat of depleted oxygen, and without proper ventilation and monitoring equipment,

a tragedy could have resulted had I not just been passing by," he said.

"To protect workers," Keptra said, "all confined spaces at JSC are classified as 'JSC permit' or 'OSHA permit,' depending on the potential hazard presented by either the space itself or the work to be done."

What is to be feared in a confined space? Claustrophobic discomfort aside, there is potential for oxygen deficiency, electrical shock or fire, mechanical hazards, and toxic atmospheres, to name a few. Other risks could be present, depending on the structure and the activity itself.

At JSC, confined spaces safety training is provided monthly at the Safety Training Center and is a requirement, along with proper certification, for working in such areas.

Confined space rescue activities were staged recently at the White Sands Test Facility. "Although a mock disaster, the exercise gave rise to some very dramatic and unsettling truths about the 'what ifs' of such a situation," said Jim Williams, personal protection equipment officer at WSTF.

"No one ever wants to hear or speak, 'Help! Help! My partner is trapped,' and, worse, not know what to do about

it. Not surprisingly, confined space accidents often turn into multiple fatalities when an untrained coworker attempts to rescue an injured victim," Williams said.

After 12 hours of classroom instruction, White Sands became its own choreographed nightmare, complete with a rash of people falling into holes, people trapped by cave-ins and people injured and unable to escape from any number of confined spaces. The actor-victims were removed via the safest, easiest, and most expedient method—sometimes up, sometimes down, or even horizontally.

'Convincer' convinces workers

By Rindy Carmichael

Being involved in a car crash is not a situation most people would volunteer for, but JSC employees and contractors recently found themselves doing just that.

On May 29, the Pasadena Police Department demonstrated its "Convincer," a device that simulates a crash at seven miles per hour. After being strapped into a lap and shoulder belt, volunteers experienced a jolt that would "convince" them seatbelts were an absolute necessity even in a low-speed motor accident.

"I volunteered to ride the 'Convincer' to see what the impact would be like," said Steve Nagel of the Safety, Reliability, and Quality Assurance Office. "I felt that it couldn't be that bad at such a low speed. When the seat abruptly stopped at the end of its short travel, the resulting force was tremendous, much greater than I had expected. The impact of my body against the straps felt very hard and, according to a spectator, my head whipped forward then back dramatically—to me

the feeling was 'brain-jarring.'

"As a result of the ride, my neck and back were pretty sore for the next two days," Nagel continued. "I don't even want to think about how it would feel at a greater speed or with more slack in the belts. I always wear my seatbelt, but in case some of you have doubts about the value of strapping in, take a tip from me and do it."

Others who were already convinced to wear their seatbelts rode the device for the non-dangerous "thrill of it."

Reinforcing the Pasadena Police Department's plea for safety belt use, 1995 Safety Awareness Day speaker, Trooper Steve Hargett, explained the perils of driving beltless.

"A 170-pound man sitting in the back seat of a car involved in a 35 mph automobile crash will equate to 2,000 pounds of force," Hargett said. "Front seat passengers not wearing a seat belt could be pushed through the windshield from that force. Those in both the front and back seats must be buckled in."

A videotape of Trooper Hargett's talk is available for viewing in the Safety Learning Center, x36369.



Photo by Rindy Carmichael

Steve Nagel of the Safety, Reliability and Quality Assurance Office gets strapped into the "Convincer" by Pasadena Police Department Officers Larry Rubin, left, and Raul Ibarra, right. The Convincer simulates a car crash at seven mph. When the seat abruptly stops, the resulting force is tremendous. Nagel was surprised by the "brain-jarring" jolt and advised everyone buckle up.

What would you do?

A friend or coworker loses consciousness?

Check for any life-threatening symptoms, including (1) the patient is having difficulty or is not breathing, (2) weak or no pulse, (3) severe bleeding, or (4) any other obvious signs of impairment. For on-site assistance, call x33333.

A coworker needs to be resuscitated?

When a person is not breathing or does not have a pulse, action should be taken immediately. Consider these minutes.

0 minutes	When breathing stops, the heart stops.
4-6 minutes	Without oxygen, brain damage is possible.
6-10 minutes	Brain damage is likely.
over 10 minutes	Irreversible brain damage occurs.

CPR classes are held regularly at the Safety Learning Center in Bldg. 226. For more information, contact Margie Williams, x36369.

Brinkley establishes key management positions

Three key management positions in the International Space Station Program have been established to help lead preparations for impending launch and flight operations.

Astronaut Kevin Chilton becomes deputy for operation, Doug Cooke for technical development and Dan Tam becomes acting deputy for business management.

Space Station Program Manager Randy Brinkley said the positions, announced last week, reflect the space station program's progress from hardware development into flight operations and the need to strengthen the management team to deal with the expanding scope of management activities.

"We are less than 18 months from space station flight operations," Brinkley said. "These new positions will allow us to focus the program management on getting ready to launch and assemble the Inter-

national Space Station" Brinkley said.

In the coming months Brinkley and his team will conduct simultaneous hardware development and flight operations reviews with contractors throughout the U.S. and with the member nations of the five international space agencies and their contractors that are partners in the ISS program.

JSC Director George Abbey said the combined operational experience of Chilton, the engineering and development experience of Cooke, and the proven business management abilities of Tam will ensure the space station team maintains the momentum gained in the past two and a half years.

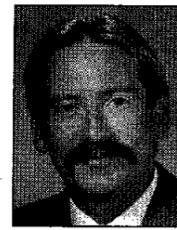
"Because of the scope of activities it is appropriate that we strengthen our management team as we move toward the flight phase of the program," Abbey said.

Cooke participated in the space station redesign and transition from the Freedom program to the current International Space Station in 1993-94 and served as space station vehicle manager until his appointment in 1995 to the position of acting deputy program manager. Cooke managed the analysis office of space station from 1984-1986 and served as the deputy manager and manager of the Exploration Program Office from 1989-1992 after which he served as the chief engineer for station.

Tam has been the station program's business manager since 1994. He came to NASA following a near 20-year career with TRW where his procurement experiences included management positions in price/cost analysis and subcontracts over a broad range of space and technology programs in support of NASA, the Department of Defense and other agency missions.



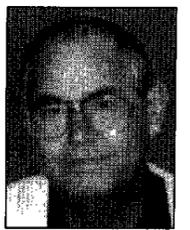
Chilton



Cooke



Tam



Saucier

Saucier dies

Dave Saucier of the Space Station Program Office died recently from cancer.

Saucier joined JSC in 1965 in the Thermochemical Test Branch in the Propulsion and Power Division. In 1984, Saucier received a total heart transplant and was instrumental in helping develop a small, lightweight pump that assists the natural heart's pumping action. The Heart Pump Project is maturing and Baylor College of Medicine is making significant progress.

During the post-Challenger return-

to-flight effort, Saucier became assistant subsystem manager for the Fuel Cells and Power Reactant Storage and Distribution System. He later transferred to the Orbiter Project Office where he became the project manager for the Extended Duration Orbiter.

Most recently, Saucier was the launch package/stage team manager for the International Space Station where he covered the design, manufacturing, test launch, on orbit assembly and operation of the power generation and storage system for the entire space station.

MCC open for viewing during STS-78

The Mission Control Center viewing room will be open for JSC and contractor badged employees and their families during portions of the STS-78 mission.

Employees will be allowed to visit the MCC from 1-5 p.m. June 29 and 11:30 a.m. - 2:30 p.m. July 3.

Highlights during viewing hours will include an education event with Canadian students conducted by Commander Tom Henricks and Payload Specialist Bob Thirsk.

Employees must wear their badges and escort family members through the lobby of Bldg. 30 South.

Children under five will not be permitted. No flash photography or loud talking will be permitted at any time. Because of the dynamic nature of shuttle mission, viewing hours may be changed or canceled without notice.

For the latest information on the schedule, call the Employee Information Service at x36765.



In the Spacehab processing facility, STS-79 Mission Specialists Jay Apt, center, and Carl Walz, right, examine hardware that will fly in Atlantis' cargo bay. The STS-79 mission will dock with the Russian Space Station to pick up Cosmonaut Researcher Shannon Lucid after her stay of more than four months on the Russian outpost. During the mission astronauts and cosmonauts will conduct a variety of scientific experiments in the Spacehab module.

SCH seeks volunteers for new addition

Space Center Houston will be opening the new Kids Space Place July 13 and volunteers are needed to launch the new interactive addition.

The \$1.2 million attraction will be a hands-on area targeting children ages 3-11 that will allow children to experience different aspects of space exploration and the human space flight program. Comprised of 17 different activity areas with 40 individual interactive stations to explore and investigate, Kids' Space Place will be a two-story attraction located within the existing facility, adjacent to SCH's Starship Gallery.

"The volunteer program will be instrumental to the successful operation of the new attraction," said Amanda Hoefling, Human Resources administrator. "This is definitely an exciting way to give guests a personal and inspiring experience during their visit."

JSC employees are encouraged to share their experiences and expertise with guests at SCH. Volunteers are classified as either "on-stage" as in the case of greeters or mission briefers, or "backstage" for office workers or wardrobe.

"This is definitely a fun way to give our guests a very personal experience during their visit," said Hoefling. "JSC's employees have a unique perspective on our human space flight program and this program will give them a chance to share their own enthusiasm for NASA's achievements with our visitors from all over the world."

Volunteers are asked to devote one four-hour shift per week and an enrollment fee of \$20 to cover the cost of a volunteer shirt and training materials. For more information call SCH's Human Resources department at 244-2150.

Lucid writes home from her 'cosmic outpost' about visual tom toms

(Continued from Page 4)

There it was, all bright, shiny, and new. The installed American glove box protruding into the aisle gave it a real "science" look. The bright orange cover on top of the glove box added a bit of color to the gray-blue and dusty-pink panels of the floor and walls. Station replacement parts and other equipment were bolted to the walls and ceiling. Just inside the hatch, on the first few floor panels, were bolted row after row of big orange and gray batteries, which were the power for Priroda on ascent. We had to start work almost immediately unbolting and bagging up the batteries because of the ground's concern about leakage into the atmosphere.

After a lot of work, the batteries on the floor were unbolted and I thought the job was complete. Then, Yuri opened a panel that revealed more rows of batteries to be unbolted. Another opened panel revealed yet more batteries; there were batteries without end. And each battery had to

be unbolted, plastic caps had to be put on the four "feet" and on the connectors, and then each battery had to be bagged and tightly tied. Talk about a lot of work. To even reach the batteries, some of the equipment had to be unbolted and the supporting metal framework taken apart. So there the three of us were floating in Priroda surrounded by floating batteries, bagged batteries, equipment and scrap metal. At times I thought that there was enough scrap metal floating there to build station Alpha.

Periodically, free-floating metal pieces would impact each other creating clear metallic tones like cathedral bells in the module and we joked with each other about the "cosmic music" that we were hearing. We devised an assembly line to clean up the mess and got so efficient that we finished the task in one sixth of the time that the ground expected and earned ourselves a holiday.

The other big change, although it is not permanent, was the arrival of

Progress, the resupply vehicle. Usually about every six weeks one is sent to Mir with food, equipment, clothes — everything that, on earth, you would have to go to the store and buy in order to live. Because it had deployed solar batteries, it was easier to spot while approaching the station than Priroda had been. I saw it first. There were big thunderstorms out in the Atlantic, with a brilliant display of lightening like visual tom toms. The cities were strung out like Christmas lights along the coast — and there was the Progress like a bright morning star skimming along the top. Suddenly, its brightness increased dramatically and Yuri said, "The engine just fired." Soon, it was close enough so that we could see the deployed solar arrays. To me, it looked like some alien insect headed straight toward us. All of a sudden I really did feel like I was in a "cosmic outpost" anxiously awaiting supplies — and really hoping that my family did remember to send me some books and candy.

Soon after it docked, the three of us began opening the hatch. When Yuri opened a small valve to equalize the pressure, we could smell the air that was in Progress. Yuri said, "Smell the fresh food." I will admit it was a fruit smell, but I thought it smelled more like the first time you open your refrigerator after a two week vacation only to discover you had forgotten to clean out the vegetable compartment.

The first things we took out were our personal packages and, yes, I quickly peeked in to see if my family had remembered the books and candy I'd requested. Of course they had. Then we started to unpack. We found the fresh food and stopped right there for lunch. We had fresh tomatoes and onions; I never have had such a good lunch. For the next week we had fresh tomatoes three times a day. It was a sad meal when we ate the last ones.

After our impromptu lunch, we took the rest of the afternoon off, looking at our mail that was in the

packages and enjoying the apples and oranges that were also on board. Yuri commented that for the first time all six of the docking ports were now occupied — a Guinness Book record.

Like I said, I had a wonderful bag of new books on Progress. My daughters had hand-selected each one, so I knew I'd enjoy them. I picked out one and rapidly read it. I came to the last page and the hero, who was being chased by an angry mob, escaped by stepping through a mirror. The end. Continued in Volume Two. And was there Volume Two in my book bag? No. Could I dash out to the bookstore? No. Talk about a feeling of total isolation and frustration. You would never believe that grown children could totally frustrate you with their good intentions while you were in low earth orbit, but let me tell you, they certainly can. Suddenly, August and home seem a long way away.

Shannon

Secretaries receive upgrade

(Continued from Page 4)

The team approach is being considered for possible use in other Engineering Division offices.

This pilot is one of several ideas that JSC management and the Human Resources Office have been exploring in partnership with the American Federation of Government Employees, Local 2284.

"We need to seek out more initiatives like this at JSC," said JSC Director George Abbey. "Innovative approaches to accomplishing our work are key in helping us with the challenges we face."

AFGE President Mary McLain

echoed this sentiment adding, "I'm very pleased about participating with management. Secretaries are a very important part of the JSC family and we've made constructive changes on some substantive task and pay issues."

Partnership also eased the way to recent branch-level secretarial promotions. Center management and AFGE shared concerns that streamlining efforts were putting a greater burden on secretaries. Following successful negotiations with AFGE, branch-level secretaries at JSC were recently upgraded from GS-5 to GS-6.

Space News Roundup

The Roundup is an official publication of the National Aeronautics and Space Administration, Lyndon B. Johnson Space Center, Houston, Texas, and is published every Friday by the Public Affairs Office for all space center employees.

The Roundup office is located in Bldg. 2, Rm. 181.

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Contributing Editor..... Rindy Carmichael

JSC pays tribute to space reporter Stephen Gauvain

Long-time space reporter Stephen Gauvain was killed Monday in a one-car accident.

Gauvain, 51, had been with KTRK Channel 13 since 1982 and the space program reporter since 1984, covering more than 60 space shuttle missions.

Gauvain was returning from a live television report in Huntsville on Interstate 45 when his Ford Explorer blew a tire and rolled into a ditch near New Waverly. A passenger, he was thrown out

of the car out and pronounced dead at the scene. The driver, photographer Dwight Payne, was not seriously injured. Gauvain is survived by a wife and three sons.

JSC paid tribute this week by flying a flag at half-staff over Bldg. 30 following his death Monday. The flag that was flown in his honor will be presented to his family along with a letter of condolence from the center.

At mid-week funeral services for Gauvain had not yet been set.